BRUHATH

Bruhat Bangalore Mahanagara Palike
Excecutive Engineer Yelahanka Division

Name of Work: Modified Estimate for Improvements to roads and drains at 4th A Cross and 1st B Main and surrounding area of B Sector in Ward No.04

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
1	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications								
	RCC Drain								
	Ganesha Park								
	6th A Main Road	2	303.60	1.10	0.90	601.13			
	12th A Cross	1	21.50	1.10	0.90	21.29			
	Shankarnag Park								
	12th B Cross From 4th B Main Rd	2	108.60	1.10	0.95	226.97			
	3rd B Main From 12th B Cross	2	120.55	1.10	1.00	265.21			
	13th B Cross From 3rd B Main	2	105.40	1.10	1.00	231.88			
	4th B Main Road	1	112.00	1.10	1.00	123.20			
	10th B Cross Road	2	206.45	1.10	1.00	454.19			
	2nd B Cross	2	68.00	1.10	1.00	149.60			
	4th Cross	2	40.15	1.10	1.00	88.33			
	Culverts								
		2	7.15	1.50	1.00	21.45			
	Approved Rate	225.94				2183.25	Cum	225.94	493282.83
2	Filling in foundation with granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications.								
	Data rate	1995.10							
2	a) 40mm Jelly	Cum	0	Area	0.31	0.40	0.00	1995.10	0.00
	Data rate	1995.10							
3	b) 20mm Jelly	Cum	0		0.31	0.40	0.00	1995.10	0.00
	Data rate	2782.22							
4	c) Coarse sand.	Cum	0		0.31	0.30	0.00	2782.22	0.00
	Data rate	2782.22							
5	d) Fine Sand	Cum	0		0.31	0.20	0.00	2782.22	0.00
	Data rate	1995.10							
6	e) 12.5mm chips	Cum	0		0.31	0.30	0.00	1995.10	0.00

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Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
1	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications								
	RCC Drain								
	Ganesha Park								
	6th A Main Road	2	303.60	1.10	0.90	601.13			
	12th A Cross	1	21.50	1.10	0.90	21.29			
	Shankarnag Park								
	12th B Cross From 4th B Main Rd	2	108.60	1.10	0.95	226.97			
	3rd B Main From 12th B Cross	2	120.55	1.10	1.00	265.21			
	13th B Cross From 3rd B Main	2	105.40	1.10	1.00	231.88			
	4th B Main Road	1	112.00	1.10	1.00	123.20			
	10th B Cross Road	2	206.45	1.10	1.00	454.19			
	2nd B Cross	2	68.00	1.10	1.00	149.60			
	4th Cross	2	40.15	1.10	1.00	88.33			
	Culverts								
		2	7.15	1.50	1.00	21.45			
	Approved Rate	225.94				2183.25	Cum	225.94	493282.83
2	Filling in foundation with granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications.								
	Data rate	1995.10		Area					
2	a) 40mm Jelly	Cum	0	0.31		0.40	0.00	1995.10	0.00
	Data rate	1995.10							
3	b) 20mm Jelly	Cum	0	0.31		0.40	0.00	1995.10	0.00
	Data rate	2782.22							
4	c) Coarse sand.	Cum	0	0.31		0.30	0.00	2782.22	0.00
	Data rate	2782.22							
5	d) Fine Sand	Cum	0	0.31		0.20	0.00	2782.22	0.00
	Data rate	1995.10							
6	e) 12.5mm chips	Cum	0	0.31		0.30	0.00	1995.10	0.00

	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984- 995 with latest amendments and conveyingto work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bends, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. for : **HDPE Grade PE80-PN6.0, 630 mm dia.** (Perforated Pipe for Rain Water Harvesting Pit) (BWSSB SR 2017-18, Pg No 121 Item No. 1.17 Code No. K010Q)								
	Basic rate	12121.00							
	Deduct 12% GST	1298.68							
	Total	10822.32							
		Rmt							
	0.63m dia HDPE		0	1.80			0.00		
							0.00	**11358.02**	**0.00**
8	Providing of Geonets for Rain Water Harvesting pit on top of the filter media as specified indrawings or as approved by Engineer Incharge. Data Rate								
	Data rate	74.55		Area					
		Sqm	0	0.31			**0.00**	**74.55**	**0.00**
9	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)								
	RCC Drain								
	Ganesha Park								
	6th A Main Road	2	303.60	1.10	0.15	100.19			
	12th A Cross	1	21.50	1.10	0.15	3.55			
	Shankarnag Park								
	12th B Cross From 4th B Main Rd	2	108.60	1.10	0.15	35.84			
	3rd B Main From 12th B Cross	2	120.55	1.10	0.15	39.78			
	13th B Cross From 3rd B Main	2	105.40	1.10	0.15	34.78			
	4th B Main Road	1	112.00	1.10	0.15	18.48			
	10th B Cross Road	2	206.45	1.10	0.15	68.13			
	2nd B Cross	2	68.00	1.10	0.15	22.44			
	4th Cross	2	40.15	1.10	0.15	13.25			
	Culverts								
		2	7.15	1.50	0.15	3.22			
	CC Road								
	2nd B Cross Road	1	45.00	4.50	0.15	30.38			
	4th Cross Road	1	40.85	3.90	0.15	23.90			
	For Kerb Stone								
	Ganesha Park								
	6th A Main Road								
	12th A Cross	2	303.60	0.20	0.10	12.14			
		1	21.50	0.20	0.10	0.43			

	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Shankarnag Park								
	12th B Cross From 4th B Main Rd	2	108.60	0.20	0.10	4.34			
	3rd B Main From 12th B Cross	2	120.55	0.20	0.10	4.82			
	13th B Cross From 3rd B Main	2	105.40	0.20	0.10	4.22			
	4th B Main Road	1	112.00	0.20	0.10	2.24			
	10th B Cross Road	2	206.45	0.20	0.10	8.26			
						430.38	**Cum**	**5690.28**	**2448975.59**
	Approved Rate	5690.28							
10	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm.								
	RCC Drain								
	Raft								
	Ganesha Park								
	6th A Main Road	2	303.60	0.90	0.15	81.97			
	12th A Cross	1	21.50	0.90	0.15	2.90			
	Shankarnag Park								
	12th B Cross From 4th B Main Rd	2	108.60	0.90	0.15	29.32			
	3rd B Main From 12th B Cross	2	120.55	0.90	0.15	32.55			
	13th B Cross From 3rd B Main	2	105.40	0.90	0.15	28.46			
	4th B Main Road	1	112.00	0.90	0.15	15.12			
	10th B Cross Road	2	206.45	0.90	0.15	55.74			
	2nd B Cross	2	68.00	0.90	0.15	18.36			
	4th Cross	2	40.15	0.90	0.15	10.84			
	Wall								
	Ganesha Park								
	6th A Main Road	4	303.60	0.15	0.60	109.30			
	12th A Cross	2	21.50	0.15	0.60	3.87			
	Shankarnag Park								
	12th B Cross From 4th B Main Rd	4	108.60	0.15	0.60	39.10			
	3rd B Main From 12th B Cross	4	120.55	0.15	0.60	43.40			
	13th B Cross From 3rd B Main	4	105.40	0.15	0.60	37.94			
	4th B Main Road	2	112.00	0.15	0.60	20.16			
	10th B Cross Road	4	206.45	0.15	0.60	74.32			
	2nd B Cross	4	68.00	0.15	0.60	24.48			
	4th Cross	4	40.15	0.15	0.55	13.25			
						641.08			

	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Culvert Raft								
		2	7.15	1.20	0.23	3.95			
	Culvert Wall								
		4	7.15	0.23	0.55	3.62			
						7.56			
	Kerb Stone Band Concrete								
	Ganesha Park								
	6th A Main Road	2	303.60	0.10	0.45	27.32			
	12th A Cross	1	21.50	0.15	0.45	1.45			
	Shankarnag Park								
	12th B Cross From 4th B Main Rd	2	108.60	0.13	0.45	12.22			
	3rd B Main From 12th B Cross	2	120.55	0.15	0.45	16.27			
	13th B Cross From 3rd B Main	1	105.30	0.15	0.45	7.11			
	4th B Main Road	1	112.00	0.15	0.45	7.56			
	10th B Cross Road	2	206.45	0.15	0.45	27.87			
						99.81			
						748.45			
			Upto 125%			**748.45**	Cum	**7420.17**	**5553631.43**
	Approved Rate	7420.17							
11	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications. Specification.								
	Consider 60Kg/Cum For Drain	641.08	60			38464.83			
	Consider 90Kg/Cum For Culvert	7.56	90			680.823			
						39145.653	Kg		
	Approved Rate	77654.86				**39.15**	Tonne	**77654.86**	**3039850.20**
12	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								
	Ganesha Park								
	6th A Main Road	2	303.60	0.90		546.48			
	12th A Cross	1	21.50	0.90		19.35			
	Shankarnag Park								
	12th B Cross From 4th B Main Rd	2	108.60	0.90		195.48			
	3rd B Main From 12th B Cross	2	120.55	0.90		216.99			
	13th B Cross From 3rd B Main	2	105.40	0.90		189.72			
	4th B Main Road	1	112.00	0.90		100.80			
	10th B Cross Road	2	206.45	0.90		371.61			
	2nd B Cross	2	68.00	0.90		122.40			

	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
						72.27			
	th Cross	2	40.15	0.90		1835.10	Sqm	2452.68	4500913.07
	Approved Rate	2452.68							
13	Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge								
	Culverts								
		2	7.15	1.20		17.16			
						17.16	Sqm		
			Upto 125%			17.16	Sqm	5686.19	97575.02
	Approved Rate	5686.19							
14	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete.								
	Kerb Stone Band Concrete								
	Ganesha Park								
	6th A Main Road	2	303.60			607.20			
	12th A Cross	1	21.50			21.50			
	Shankarnag Park								
	12th B Cross From 4th B Main Rd	2	108.60			217.20			
	3rd B Main From 12th B Cross	2	120.60			241.20			
	13th B Cross From 3rd B Main	2	105.40			210.80			
	4th B Main Road	1	112.00			112.00			
	10th B Cross Road	2	206.50			413.00			
						1822.90	m		
	Approved Rate	453.89				4051.00	Nos	453.89	1838708.39
15	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications.								
	Kerb Stone Band Concrete								
	Ganesha Park								
	6th A Main Road	2	303.60		0.35	212.52			
	12th A Cross	1	21.50		0.35	7.53			
	Shankarnag Park								
	12th B Cross From 4th B Main Rd	2	108.60		0.35	76.02			
	3rd B Main From 12th B Cross	2	120.60		0.35	84.42			
	13th B Cross From 3rd B Main	2	105.40		0.35	73.78			
	4th B Main Road	1	112.00		0.35	39.20			
	10th B Cross Road	2	206.50		0.35	144.55			
						638.02	Sqm	89.00	56783.34
	Approved Rate	89.00							

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per								
CC Road								
2nd B Cross Road	1	45.00	4.50	0.30	60.75			
4th Cross Road	1	40.85	3.90	0.30	47.79			
					108.54	Cum	85.03	9229.89
Basic Rate	41.00							
Lead and Lift	35.40							
Sub Total - 1	76.40							
Area Weightage @ 6%	4.58							
Sub Total - 2	80.98							
TP @ 5%	4.05							
Total	85.03							
E2 KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications.								
CC Road								
2nd B Cross Road	1	45.00	4.50		202.50			
4th Cross Road	1	40.85	3.90		159.32			
					361.82	Sqm	6.68	2416.20
Basic Rate	6.00							
Area Weightage @ 6%	0.36							
Sub Total	6.36							
TP @ 5%	0.32							
Total	6.68							
E3 Cement concrete pavement Construction of ur...Grade plain...cement concrete pavement, Thickness as per design, over a prepared sub base with 53 grade cement or any other type as per clause 1501.2.2 M30 (Grade) coarse and fine aggregate conforming to IS:383 maximum size of coarse aggregate not exceeding 25mm , mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weight batcher as per approved mix design laid in approved fixed of 125 micron thick polythene film, wedges steel plates including levelling the form work as per drawing) Spreading the concrete with shovels rackers compacted using needle screed and plate vibrator and finished in a								
CC Road								
2nd B Cross Road	1	45.00	4.50	0.15	30.38			
4th Cross Road	1	40.85	3.90	0.15	23.90			
					54.27	Cum	5471.51	296951.05
Basic Rate	4916.00							
Area Weightage @ 6%	294.96							
Sub Total	5210.96							
TP @ 5%	260.55							
Total	5471.51							
							Total Construction Cost	18338317.00

Technical Sanction
Administrative Approval
Accorded For Rs 18338317/-
Head of A/C 0.39.66
CERT NO

TA CE (YNR)

Assistant Engineer
Ward No-4
BBMP Bangalore

Asst. Executive Engineer,
Yelahanka New Town Sub Division
BBMP Bangalore

Executive Engineer,
Yelahanka Division
BBMP Bangalore